

SEVERN
TRENT

STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
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ANALYTICAL REPORT

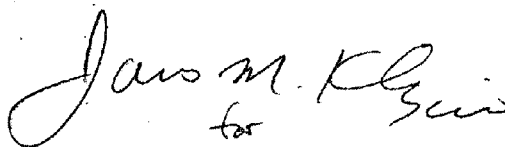
X07-001

Lot #: F6J060270
SDG #: SL641

Dot Stewart

Pacific Northwest National Lab
3110 Port of Benton Blvd.
Sigma 5 MS K694
Richland, WA 99352

SEVERN TRENT LABORATORIES, INC.



Melania Harris
Project Manager

November 28, 2006

CASE NARRATIVE

Pacific Northwest National Laboratories
P.O. Box 1970
Richland, Washington 99352
November 28, 2006
Attention: Dot Stewart

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Earth City, MO 63045

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SDG	:	SL641
Number of Samples	:	14
Sample Matrix	:	Water
Data Deliverable	:	Summary
Date SDG Closed	:	October 20, 2006

II. Introduction

Between October 6, 2006 and October 26, 2006, fourteen (14) water samples were received by STL St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

Deviation from Request: None

IV. Definitions

QCBLK-	Quality Control Blank, Method Blank
QCLCS-	Quality Control Laboratory Control Sample, Blank Spike
DUP-	Laboratory Duplicate
MS-	Matrix Spike
MSD-	Matrix Spike Duplicate



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V. Comments

General

The following SAFs are associated with this SDG: X07-001.

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Volatiles

The MS/MSD RPD for Acetone is not within method acceptance criteria. MS/MSD recoveries are within QC limits.

Batch:

6296254

Affected Samples:

F6J180204 (1): B1KKR2

Methylene chloride was observed in the method blank above the reporting limit. Methylene chloride is a recognized potential laboratory contaminants. Concentrations up to five times the level observed in the method blank, in associated laboratory samples, may be attributed to its presence in the laboratory. Methylene Chloride was not detected in the associated samples.

The closing CCV recovery was outside the upper QC limit (greater than 15% RSD) for Acetone indicating a potential high bias for this analyte in the samples associated with this CCV. Acetone was not detected above the reporting limit in the associated samples.

The LCS/LCSD recoveries are outside QC limits for less than 10% of the compounds spiked. Laboratory QC practices, based on federal guidance documents, allow for up to 10% of the spike compounds to be outside QC criteria without necessitating re-preparation/re-analysis. Sample purge efficiency and compliance is demonstrated by the remaining acceptable LCS/LCSD recoveries.

The MS/MSD recoveries are outside QC limits for less than 10% of the compounds spiked. Laboratory QC practices, based on federal guidance documents, allow for up to 10% of the spike compounds to be outside QC criteria without necessitating re-preparation/re-analysis. Sample purge efficiency and compliance is demonstrated by the remaining acceptable MS/MSD recoveries.

Batch:

6305232

Affected Samples:

F6J260237 (1): B1KKR8

F6J260237 (4): B1KKV0

F6J260237 (3): B1KKT1



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November 28, 2006
SDG: SL641

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The LCS/LCSD recoveries are outside QC limits for less than 10% of the compounds spiked. Laboratory QC practices, based on federal guidance documents, allow for up to 10% of the spike compounds to be outside QC criteria without necessitating re-preparation/re-analysis. Sample purge efficiency and compliance is demonstrated by the remaining acceptable LCS/LCSD recoveries.

There is one surrogate recovery in the LCS and three surrogate recoveries in the LCSD which exceeded the QC limits. However the spike compound recoveries in the LCS and LCSD are acceptable (see above).

Batch:

6284175

Affected Samples:

F6J060270 (1): B1KKW1

F6J060270 (2): B1KKW6

Ion Chromatography

Poor matrix spike recovery for Chloride in batch 6282167, Sulfate in batch 6282169, Nitrite in batch 6282170, and Nitrate in batch 6282171 is attributed to matrix interference.

Affected Samples:

F6J060270 (1): B1KKW1

F6J060270 (5): B1KKT2

F6J060270 (2): B1KKW6

F6J060270 (6): B1KKT8

F6J060270 (3): B1KKV8

F6J060270 (7): B1KKW0

F6J060270 (4): B1KKV9

The sample duplicate %RPD for Chloride in batch 6296386 is outside the established QC limits. A matrix interference is physically evident in the sample. Method performance is demonstrated by acceptable LCS recovery.

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Fluoride in batch 6296387 and Sulfate in batch 6296388 is attributed to matrix interference.

Affected Samples:

F6J180204 (1): B1KKR2

F6J180204 (3): B1KKT0

F6J180204 (2): B1KKV2

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Sulfate in batch 6300290, Nitrite in batch 6300291, and Nitrate in batch 6300292, and Nitrite in batch 6300323 is attributed to matrix interference.

Affected Samples:

F6J260237 (1): B1KKR8

F6J260237 (3): B1KKT1

F6J260237 (2): B1KKR9

F6J260237 (4): B1KKV0



STL

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November 28, 2006
SDG: SL641

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I certify that this Summary Package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

A handwritten signature in cursive script that reads "Jan M. Klyns".

for
Melania Harris
St. Louis Project Manager

METHODS SUMMARY

SL641

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chloride	MCAWW 300.0A	MCAWW 300.0A
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Nitrate as NO3	MCAWW 300.0A	
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SL641 : F6J060270

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
JFWJ0	001	B1KKW1		10/05/06	12:15
JFWJ5	002	B1KKW6		10/05/06	13:00
JFWJ8	003	B1KKV8		10/04/06	13:00
JFWJ9	004	B1KKV9		10/04/06	13:50
JFWKA	005	B1KKT2		10/04/06	10:30
JFWKG	006	B1KKT8		10/04/06	11:30
JFWKJ	007	B1KKW0		10/04/06	14:30

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

SL641 : F6J180204

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JGN27	001	B1KKR2	10/16/06	09:45
JGN28	002	B1KKV2	10/16/06	12:30
JGN29	003	B1KKT0	10/16/06	13:15

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
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(Continued on next page)

SAMPLE SUMMARY

SL641 : F6J260237

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
JHA55	001	B1KKR8		10/24/06	14:10
JHA6T	002	B1KKR9		10/24/06	13:00
JHA61	003	B1KKT1		10/23/06	13:45
JHA7E	004	B1KKV0		10/24/06	13:30

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

VOLATILES

Pacific Northwest National Laboratory

Client Sample ID: B1KKW1

GC/MS Volatiles

Lot-Sample #....: F6J060270-001 Work Order #....: JFWJ01AC Matrix.....: WATER
 Date Sampled....: 10/05/06 Date Received...: 10/06/06
 Prep Date.....: 10/10/06 Analysis Date...: 10/10/06
 Prep Batch #....: 6284175
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	0.16 J	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	0.84 J	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(66 - 131)
Dibromofluoromethane	108	(69 - 135)
1,2-Dichloroethane-d4	116	(69 - 132)
4-Bromofluorobenzene	110	(66 - 119)

NOTE (S) :

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

BLKKW1

GC/MS Volatiles

Lot-Sample #: F6J060270-001

Work Order #: JFWJ01AC

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

Pacific Northwest National Laboratory

Client Sample ID: B1KKW6

GC/MS Volatiles

Lot-Sample #....: F6J060270-002 Work Order #....: JFWJ51AC Matrix.....: WATER
 Date Sampled....: 10/05/06 Date Received...: 10/06/06
 Prep Date.....: 10/10/06 Analysis Date...: 10/10/06
 Prep Batch #....: 6284175
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	ND	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	93	(66 - 131)
Dibromofluoromethane	110	(69 - 135)
1,2-Dichloroethane-d4	118	(69 - 132)
4-Bromofluorobenzene	110	(66 - 119)

Pacific Northwest National Laboratory

B1KKW6

GC/MS Volatiles

Lot-Sample #: F6J060270-002

Work Order #: JFWJ51AC

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

Pacific Northwest National Laboratory

Client Sample ID: B1KKR2

GC/MS Volatiles

Lot-Sample #....: F6J180204-001 Work Order #....: JGN271AC Matrix.....: WATER
 Date Sampled...: 10/16/06 Date Received...: 10/18/06
 Prep Date.....: 10/20/06 Analysis Date...: 10/20/06
 Prep Batch #....: 6296254
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	0.74 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	0.45 J	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	93	(66 - 131)
Dibromofluoromethane	112	(69 - 135)
1,2-Dichloroethane-d4	113	(69 - 132)
4-Bromofluorobenzene	98	(66 - 119)

NOTE(S) :

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

BLKKR2

GC/MS Volatiles

Lot-Sample #: F6J180204-001

Work Order #: JGN271AC

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

Pacific Northwest National Laboratory

Client Sample ID: B1KKR8

GC/MS Volatiles

Lot-Sample #....: F6J260237-001 Work Order #....: JHA551AC Matrix.....: WATER
 Date Sampled....: 10/24/06 Date Received...: 10/26/06
 Prep Date.....: 10/31/06 Analysis Date...: 10/31/06
 Prep Batch #....: 6305232
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND N	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	0.57 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	0.53 J	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(66 - 131)
Dibromofluoromethane	102	(69 - 135)
1,2-Dichloroethane-d4	113	(69 - 132)
4-Bromofluorobenzene	99	(66 - 119)

NOTE (S) :

N Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

B1KKR8

GC/MS Volatiles

Lot-Sample #: F6J260237-001

Work Order #: JHA551AC

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

Pacific Northwest National Laboratory

Client Sample ID: B1KKT1

GC/MS Volatiles

Lot-Sample #....: F6J260237-003 Work Order #....: JHA611AC Matrix.....: WATER
 Date Sampled....: 10/23/06 Date Received...: 10/26/06
 Prep Date.....: 10/31/06 Analysis Date...: 10/31/06
 Prep Batch #....: 6305232
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND N	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	0.57 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	ND	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	106	(66 - 131)
Dibromofluoromethane	105	(69 - 135)
1,2-Dichloroethane-d4	109	(69 - 132)
4-Bromofluorobenzene	98	(66 - 119)

NOTE (S) :

N Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

BLKKT1

GC/MS Volatiles

Lot-Sample #: F6J260237-003

Work Order #: JHA611AC

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

Pacific Northwest National Laboratory

Client Sample ID: B1KKV0

GC/MS Volatiles

Lot-Sample #....: F6J260237-004 Work Order #....: JHA7E1AC Matrix.....: WATER
 Date Sampled....: 10/24/06 Date Received...: 10/26/06
 Prep Date.....: 10/31/06 Analysis Date...: 10/31/06
 Prep Batch #....: 6305232
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND N	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	0.34 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	ND	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20
SURROGATE	PERCENT RECOVERY	RECOVERY		
		LIMITS		
Toluene-d8	106	(66 - 131)		
Dibromofluoromethane	107	(69 - 135)		
1,2-Dichloroethane-d4	112	(69 - 132)		
4-Bromofluorobenzene	100	(66 - 119)		

NOTE (S) :

N Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

B1KKV0

GC/MS Volatiles

Lot-Sample #: F6J260237-004

Work Order #: JHA7E1AC

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL641

Work Order #...: JF5RW1AA

Matrix.....: WATER

MB Lot-Sample #: F6J110000-175

Prep Date.....: 10/10/06

Analysis Date...: 10/10/06

Prep Batch #...: 6284175

Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	0.65 J	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	92	(66 - 131)
Dibromofluoromethane	110	(69 - 135)
1,2-Dichloroethane-d4	121	(69 - 132)
4-Bromofluorobenzene	109	(66 - 119)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F6J110000-175 B Work Order #: JF5RW1AA Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL641

Work Order #...: JG3AG1AA

Matrix.....: WATER

MB Lot-Sample #: F6J230000-254

Prep Date.....: 10/20/06

Analysis Date...: 10/20/06

Prep Batch #...: 6296254

Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	0.65 J	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	107	(66 - 131)
Dibromofluoromethane	111	(69 - 135)
1,2-Dichloroethane-d4	115	(69 - 132)
4-Bromofluorobenzene	103	(66 - 119)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F6J230000-254 B Work Order #: JG3AG1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL641

Work Order #...: JHTJVI1AA

Matrix.....: WATER

MB Lot-Sample #: F6K010000-232

Prep Date.....: 10/31/06

Analysis Date...: 10/31/06

Prep Batch #...: 6305232

Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	1.1	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(66 - 131)
Dibromofluoromethane	105	(69 - 135)
1,2-Dichloroethane-d4	110	(69 - 132)
4-Bromofluorobenzene	98	(66 - 119)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Pacific Northwest National Laboratory

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F6K010000-232 B Work Order #: JHTJVLAA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JF5RW1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: F6J110000-175 JF5RW1AD-LCSD
 Prep Date.....: 10/10/06 Analysis Date...: 10/10/06
 Prep Batch #...: 6284175
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	10.0	ug/L	100		SW846 8260B
	10.0	11.5	ug/L	115	14	SW846 8260B
Ethylbenzene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	11.7	ug/L	117	14	SW846 8260B
1,4-Dioxane	200	268	ug/L	134		SW846 8260B
	200	246	ug/L	123	8.8	SW846 8260B
Vinyl chloride	10.0	9.45	ug/L	95		SW846 8260B
	10.0	10.7	ug/L	107	13	SW846 8260B
Acetone	10.0	13.5	ug/L	135		SW846 8260B
	10.0	11.0	ug/L	110	20	SW846 8260B
Methylene chloride	10.0	11.2	ug/L	112		SW846 8260B
	10.0	11.4	ug/L	114	1.3	SW846 8260B
Carbon disulfide	10.0	10.8	ug/L	108		SW846 8260B
	10.0	12.2	ug/L	122	12	SW846 8260B
1,1-Dichloroethane	10.0	9.79	ug/L	98		SW846 8260B
	10.0	10.8	ug/L	108	9.6	SW846 8260B
2-Butanone	10.0	12.0	ug/L	120		SW846 8260B
	10.0	10.4	ug/L	104	15	SW846 8260B
Chloroform	10.0	10.7	ug/L	107		SW846 8260B
	10.0	11.3	ug/L	113	6.0	SW846 8260B
cis-1,2-Dichloroethene	10.0	11.0	ug/L	110		SW846 8260B
	10.0	12.0 a	ug/L	120	7.8	SW846 8260B
Propionitrile	50.0	63.1	ug/L	126		SW846 8260B
	50.0	57.2	ug/L	114	9.8	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.2	ug/L	102		SW846 8260B
	10.0	11.1	ug/L	111	7.9	SW846 8260B
1,1,1-Trichloroethane	10.0	10.4	ug/L	104		SW846 8260B
	10.0	11.8 a	ug/L	118	13	SW846 8260B
Carbon tetrachloride	10.0	10.2	ug/L	102		SW846 8260B
	10.0	11.8	ug/L	118	14	SW846 8260B
1,2-Dichloroethane	10.0	12.2	ug/L	122		SW846 8260B
	10.0	11.7	ug/L	117	4.8	SW846 8260B
Benzene	10.0	9.94	ug/L	99		SW846 8260B
	10.0	11.0	ug/L	110	9.7	SW846 8260B
Trichloroethene	10.0	9.60	ug/L	96		SW846 8260B
	10.0	10.6	ug/L	106	9.8	SW846 8260B
4-Methyl-2-pentanone	10.0	11.1	ug/L	111		SW846 8260B
	10.0	10.6	ug/L	106	4.3	SW846 8260B
1,1,2-Trichloroethane	10.0	11.4	ug/L	114		SW846 8260B
	10.0	11.1	ug/L	111	2.6	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JF5RW1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: F6J110000-175 JF5RW1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Tetrachloroethene	10.0	8.09	ug/L	81		SW846 8260B
	10.0	9.50	ug/L	95	16	SW846 8260B
Tetrahydrofuran	50.0	66.9 a	ug/L	134		SW846 8260B
	50.0	56.6	ug/L	113	17	SW846 8260B
1,4-Dichlorobenzene	10.0	9.81	ug/L	98		SW846 8260B
	10.0	10.5	ug/L	105	6.6	SW846 8260B
1-Butanol	100	131	ug/L	131		SW846 8260B
	100	121	ug/L	121	7.7	SW846 8260B
Toluene	10.0	9.80	ug/L	98		SW846 8260B
	10.0	11.1	ug/L	111	12	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(85 - 117)
	119 *	(85 - 117)
Dibromofluoromethane	118	(82 - 121)
	120	(82 - 121)
1,2-Dichloroethane-d4	135 *	(74 - 126)
	130 *	(74 - 126)
4-Bromofluorobenzene	114	(76 - 117)
	124 *	(76 - 117)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JG3AG1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: F6J230000-254 JG3AG1AD-LCSD
 Prep Date.....: 10/20/06 Analysis Date...: 10/20/06
 Prep Batch #...: 6296254
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	9.35	ug/L	94		SW846 8260B
	10.0	9.48	ug/L	95	1.3	SW846 8260B
Ethylbenzene	10.0	9.37	ug/L	94		SW846 8260B
	10.0	9.54	ug/L	95	1.8	SW846 8260B
1,4-Dioxane	200	164	ug/L	82		SW846 8260B
	200	186	ug/L	93	13	SW846 8260B
Vinyl chloride	10.0	8.07	ug/L	81		SW846 8260B
	10.0	8.11	ug/L	81	0.49	SW846 8260B
Acetone	10.0	8.54	ug/L	85		SW846 8260B
	10.0	8.64	ug/L	86	1.1	SW846 8260B
Methylene chloride	10.0	10.5	ug/L	105		SW846 8260B
	10.0	10.2	ug/L	102	2.4	SW846 8260B
Carbon disulfide	10.0	12.1	ug/L	121		SW846 8260B
	10.0	12.4	ug/L	124	2.8	SW846 8260B
1,1-Dichloroethane	10.0	10.1	ug/L	101		SW846 8260B
	10.0	10.2	ug/L	102	0.29	SW846 8260B
2-Butanone	10.0	9.02	ug/L	90		SW846 8260B
	10.0	9.89	ug/L	99	9.2	SW846 8260B
Chloroform	10.0	9.67	ug/L	97		SW846 8260B
	10.0	9.85	ug/L	99	1.8	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.78	ug/L	98		SW846 8260B
	10.0	10.1	ug/L	101	3.1	SW846 8260B
Propionitrile	50.0	50.0	ug/L	100		SW846 8260B
	50.0	50.4	ug/L	101	0.85	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.77	ug/L	98		SW846 8260B
	10.0	10.1	ug/L	101	2.9	SW846 8260B
1,1,1-Trichloroethane	10.0	9.44	ug/L	94		SW846 8260B
	10.0	9.70	ug/L	97	2.6	SW846 8260B
Carbon tetrachloride	10.0	9.36	ug/L	94		SW846 8260B
	10.0	9.79	ug/L	98	4.5	SW846 8260B
1,2-Dichloroethane	10.0	10.3	ug/L	103		SW846 8260B
	10.0	10.4	ug/L	104	1.0	SW846 8260B
Benzene	10.0	9.51	ug/L	95		SW846 8260B
	10.0	9.72	ug/L	97	2.1	SW846 8260B
Trichloroethene	10.0	9.56	ug/L	96		SW846 8260B
	10.0	9.36	ug/L	94	2.2	SW846 8260B
4-Methyl-2-pentanone	10.0	11.1	ug/L	111		SW846 8260B
	10.0	10.1	ug/L	101	9.8	SW846 8260B
1,1,2-Trichloroethane	10.0	9.87	ug/L	99		SW846 8260B
	10.0	9.80	ug/L	98	0.70	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JG3AG1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: F6J230000-254 JG3AG1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Tetrachloroethene	10.0	8.55	ug/L	86		SW846 8260B
	10.0	8.84	ug/L	88	3.3	SW846 8260B
Tetrahydrofuran	50.0	48.3	ug/L	97		SW846 8260B
	50.0	49.7	ug/L	99	2.8	SW846 8260B
1,4-Dichlorobenzene	10.0	8.75	ug/L	87		SW846 8260B
	10.0	8.90	ug/L	89	1.7	SW846 8260B
1-Butanol	100	87.4	ug/L	87		SW846 8260B
	100	99.8	ug/L	100	13	SW846 8260B
Toluene	10.0	9.42	ug/L	94		SW846 8260B
	10.0	9.68	ug/L	97	2.8	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 117)
	105	(85 - 117)
Dibromofluoromethane	107	(82 - 121)
	108	(82 - 121)
1,2-Dichloroethane-d4	107	(74 - 126)
	111	(74 - 126)
4-Bromofluorobenzene	93	(76 - 117)
	98	(76 - 117)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JHTJV1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: F6K010000-232 JHTJV1AD-LCSD
 Prep Date.....: 10/31/06 Analysis Date...: 10/31/06
 Prep Batch #...: 6305232
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Ethylbenzene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	9.86	ug/L	99	2.6	SW846 8260B
1,1-Dichloroethene	10.0	10.6	ug/L	106		SW846 8260B
	10.0	10.5	ug/L	105	1.3	SW846 8260B
1,4-Dioxane	200	180	ug/L	90		SW846 8260B
	200	173	ug/L	86	4.2	SW846 8260B
Vinyl chloride	10.0	9.36	ug/L	94		SW846 8260B
	10.0	8.85	ug/L	88	5.6	SW846 8260B
Acetone	10.0	19.2 a	ug/L	192		SW846 8260B
	10.0	18.1 a	ug/L	181	5.7	SW846 8260B
Methylene chloride	10.0	11.2	ug/L	112		SW846 8260B
	10.0	10.8	ug/L	108	3.7	SW846 8260B
Carbon disulfide	10.0	13.3	ug/L	133		SW846 8260B
	10.0	13.0	ug/L	130	2.8	SW846 8260B
1,1-Dichloroethane	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.5	ug/L	105	3.0	SW846 8260B
2-Butanone	10.0	8.96	ug/L	90		SW846 8260B
	10.0	9.59	ug/L	96	6.8	SW846 8260B
Chloroform	10.0	10.5	ug/L	105		SW846 8260B
	10.0	10.1	ug/L	101	3.7	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.97	ug/L	100		SW846 8260B
	10.0	10.1	ug/L	101	0.85	SW846 8260B
Propionitrile	50.0	50.6	ug/L	101		SW846 8260B
	50.0	52.0	ug/L	104	2.8	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.4	ug/L	104	3.8	SW846 8260B
1,1,1-Trichloroethane	10.0	10.5	ug/L	105		SW846 8260B
	10.0	9.99	ug/L	100	5.3	SW846 8260B
Carbon tetrachloride	10.0	10.3	ug/L	103		SW846 8260B
	10.0	10.2	ug/L	102	1.6	SW846 8260B
1,2-Dichloroethane	10.0	10.5	ug/L	105		SW846 8260B
	10.0	10.2	ug/L	102	2.8	SW846 8260B
Benzene	10.0	10.2	ug/L	102		SW846 8260B
	10.0	9.88	ug/L	99	3.7	SW846 8260B
Trichloroethene	10.0	9.91	ug/L	99		SW846 8260B
	10.0	9.78	ug/L	98	1.3	SW846 8260B
4-Methyl-2-pentanone	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.3	ug/L	103	4.7	SW846 8260B
1,1,2-Trichloroethane	10.0	9.97	ug/L	100		SW846 8260B
	10.0	9.73	ug/L	97	2.5	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JHTJV1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: F6K010000-232 JHTJV1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Tetrachloroethene	10.0	9.44	ug/L	94		SW846 8260B
	10.0	9.08	ug/L	91	3.8	SW846 8260B
Tetrahydrofuran	50.0	47.9	ug/L	96		SW846 8260B
	50.0	49.3	ug/L	99	2.9	SW846 8260B
1,4-Dichlorobenzene	10.0	9.25	ug/L	92		SW846 8260B
	10.0	9.05	ug/L	91	2.2	SW846 8260B
1-Butanol	100	80.6	ug/L	81		SW846 8260B
	100	88.7	ug/L	89	9.5	SW846 8260B
Toluene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	9.81	ug/L	98	3.1	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	106	(85 - 117)
	104	(85 - 117)
Dibromofluoromethane	109	(82 - 121)
	106	(82 - 121)
1,2-Dichloroethane-d4	107	(74 - 126)
	103	(74 - 126)
4-Bromofluorobenzene	100	(76 - 117)
	97	(76 - 117)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: SL641 Work Order #....: JFQ4P1AD-MS Matrix.....: WATER
 MS Lot-Sample #: F6J050268-001 JFQ4P1AE-MSD
 Date Sampled...: 10/03/06 Date Received...: 10/04/06
 Prep Date.....: 10/10/06 Analysis Date...: 10/10/06
 Prep Batch #....: 6284175
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	10.5	ug/L	105	4.5	SW846 8260B
Ethylbenzene	ND	10.0	8.26	ug/L	83		SW846 8260B
	ND	10.0	8.41	ug/L	84	1.8	SW846 8260B
1,4-Dioxane	ND	200	199	ug/L	100		SW846 8260B
	ND	200	228	ug/L	114	14	SW846 8260B
Vinyl chloride	ND	10.0	9.30	ug/L	93		SW846 8260B
	ND	10.0	9.79	ug/L	98	5.2	SW846 8260B
Acetone	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	11.4	ug/L	114	13	SW846 8260B
Methylene chloride	2.2	10.0	12.8	ug/L	106		SW846 8260B
	2.2	10.0	12.7	ug/L	106	0.23	SW846 8260B
Carbon disulfide	ND	10.0	11.1	ug/L	111		SW846 8260B
	ND	10.0	11.4	ug/L	114	2.5	SW846 8260B
1,1-Dichloroethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.92	ug/L	99	0.78	SW846 8260B
2-Butanone	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.60	ug/L	96	5.2	SW846 8260B
Chloroform	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.47	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	11.1	ug/L	111		SW846 8260B
	ND	10.0	11.0	ug/L	110	0.54	SW846 8260B
Propionitrile	ND	50.0	50.1	ug/L	100		SW846 8260B
	ND	50.0	47.7	ug/L	95	4.8	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.4	ug/L	104	0.0	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	10.7	ug/L	107	0.37	SW846 8260B
Carbon tetrachloride	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.6	ug/L	106	3.0	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.47	SW846 8260B
Benzene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.1	SW846 8260B
Trichloroethene	ND	10.0	9.76	ug/L	98		SW846 8260B
	ND	10.0	9.92	ug/L	99	1.6	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	6.44	ug/L	64		SW846 8260B
	ND	10.0	6.53	ug/L	65	1.3	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	7.93	ug/L	79		SW846 8260B
	ND	10.0	7.96	ug/L	80	0.42	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641

Work Order #...: JFQ4P1AD-MS

Matrix.....: WATER

MS Lot-Sample #: F6J050268-001

JFQ4P1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Tetrachloroethene	ND	10.0	6.76	ug/L	68		SW846 8260B
	ND	10.0	6.85	ug/L	68	1.3	SW846 8260B
Tetrahydrofuran	ND	50.0	48.7	ug/L	97		SW846 8260B
	ND	50.0	52.1	ug/L	104	6.6	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	7.22	ug/L	72		SW846 8260B
	ND	10.0	7.30	ug/L	73	0.97	SW846 8260B
1-Butanol	ND	100	47.3	ug/L	47		SW846 8260B
	ND	100	54.7	ug/L	55	14	SW846 8260B
Toluene	ND	10.0	7.85	ug/L	79		SW846 8260B
	ND	10.0	8.02	ug/L	80	2.1	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	87	(66 - 131)
	88	(66 - 131)
Dibromofluoromethane	106	(69 - 135)
	109	(69 - 135)
1,2-Dichloroethane-d4	113	(69 - 132)
	112	(69 - 132)
4-Bromofluorobenzene	107	(66 - 119)
	104	(66 - 119)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: SL641 Work Order #....: JGN271AJ-MS Matrix.....: WATER
 MS Lot-Sample #: F6J180204-001 JGN271AK-MSD
 Date Sampled...: 10/16/06 Date Received...: 10/18/06
 Prep Date.....: 10/20/06 Analysis Date...: 10/20/06
 Prep Batch #....: 6296254
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,4-Dioxane	ND	200	150	ug/L	75		SW846 8260B
	ND	200	168	ug/L	84	11	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.58	ug/L	96		SW846 8260B
	ND	10.0	9.71	ug/L	97	1.4	SW846 8260B
Ethylbenzene	ND	10.0	9.59	ug/L	96		SW846 8260B
	ND	10.0	9.32	ug/L	93	2.8	SW846 8260B
Vinyl chloride	ND	10.0	8.09	ug/L	81		SW846 8260B
	ND	10.0	8.06	ug/L	81	0.42	SW846 8260B
Acetone	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	8.29	ug/L	83 p	24	SW846 8260B
Methylene chloride	ND	10.0	9.03	ug/L	90		SW846 8260B
	ND	10.0	9.29	ug/L	93	2.9	SW846 8260B
Carbon disulfide	ND	10.0	12.3	ug/L	123		SW846 8260B
	ND	10.0	12.1	ug/L	121	1.6	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.96	ug/L	100		SW846 8260B
	ND	10.0	10.1	ug/L	101	1.6	SW846 8260B
2-Butanone	ND	10.0	8.43	ug/L	84		SW846 8260B
	ND	10.0	7.55	ug/L	76	11	SW846 8260B
Chloroform	0.74	10.0	10.3	ug/L	95		SW846 8260B
	0.74	10.0	10.2	ug/L	94	0.88	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	9.74	ug/L	97	0.78	SW846 8260B
Propionitrile	ND	50.0	45.4	ug/L	91		SW846 8260B
	ND	50.0	50.7	ug/L	101	11	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.70	ug/L	97		SW846 8260B
	ND	10.0	9.45	ug/L	94	2.6	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.64	ug/L	96		SW846 8260B
	ND	10.0	9.36	ug/L	94	2.8	SW846 8260B
Carbon tetrachloride	ND	10.0	9.60	ug/L	96		SW846 8260B
	ND	10.0	9.42	ug/L	94	1.9	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.3	ug/L	103	0.29	SW846 8260B
Benzene	ND	10.0	9.72	ug/L	97		SW846 8260B
	ND	10.0	9.47	ug/L	95	2.6	SW846 8260B
Trichloroethene	0.45	10.0	9.75	ug/L	93		SW846 8260B
	0.45	10.0	9.64	ug/L	92	1.2	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	9.77	ug/L	98		SW846 8260B
	ND	10.0	10.4	ug/L	104	6.1	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.52	ug/L	95		SW846 8260B
	ND	10.0	9.60	ug/L	96	0.90	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641

Work Order #...: JGN271AJ-MS

Matrix.....: WATER

MS Lot-Sample #: F6J180204-001

JGN271AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Tetrachloroethene	ND	10.0	8.86	ug/L	89		SW846 8260B
	ND	10.0	8.41	ug/L	84	5.2	SW846 8260B
Tetrahydrofuran	ND	50.0	48.7	ug/L	97		SW846 8260B
	ND	50.0	48.1	ug/L	96	1.3	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	8.88	ug/L	89		SW846 8260B
	ND	10.0	8.63	ug/L	86	2.9	SW846 8260B
1-Butanol	ND	100	61.4	ug/L	61		SW846 8260B
	ND	100	68.7	ug/L	69	11	SW846 8260B
Toluene	ND	10.0	9.72	ug/L	97		SW846 8260B
	ND	10.0	9.53	ug/L	95	2.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	104	(66 - 131)
	102	(66 - 131)
Dibromofluoromethane	103	(69 - 135)
	102	(69 - 135)
1,2-Dichloroethane-d4	104	(69 - 132)
	109	(69 - 132)
4-Bromofluorobenzene	96	(66 - 119)
	93	(66 - 119)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JHFQD1AJ-MS Matrix.....: WATER
 MS Lot-Sample #: F6J270361-002 JHFQD1AK-MSD
 Date Sampled...: 10/24/06 Date Received...: 10/25/06
 Prep Date.....: 10/31/06 Analysis Date...: 10/31/06
 Prep Batch #...: 6305232
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.38	SW846 8260B
Ethylbenzene	ND	10.0	9.74	ug/L	97		SW846 8260B
	ND	10.0	10.0	ug/L	100	2.9	SW846 8260B
1,4-Dioxane	ND	200	170	ug/L	85		SW846 8260B
	ND	200	201	ug/L	100	16	SW846 8260B
Vinyl chloride	ND	10.0	9.56	ug/L	96		SW846 8260B
	ND	10.0	10.0	ug/L	100	4.9	SW846 8260B
Acetone	ND	10.0	18.7	ug/L	187		SW846 8260B
	Qualifiers: a,N						
	ND	10.0	19.6	ug/L	196	5.1	SW846 8260B
	Qualifiers: a,N						
Methylene chloride	ND	10.0	11.0	ug/L	110		SW846 8260B
	ND	10.0	11.3	ug/L	113	2.6	SW846 8260B
Carbon disulfide	ND	10.0	13.7	ug/L	137		SW846 8260B
	ND	10.0	13.8	ug/L	138	0.72	SW846 8260B
1,1-Dichloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.8	ug/L	108	1.8	SW846 8260B
2-Butanone	ND	10.0	10.8	ug/L	108		SW846 8260B
	ND	10.0	10.8	ug/L	108	0.09	SW846 8260B
Chloroform	8.2	10.0	18.6	ug/L	104		SW846 8260B
	8.2	10.0	18.7	ug/L	105	0.64	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.2	ug/L	102	1.6	SW846 8260B
Propionitrile	ND	50.0	53.0	ug/L	106		SW846 8260B
	ND	50.0	54.6	ug/L	109	2.9	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.5	ug/L	105	1.2	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	11.0	ug/L	110		SW846 8260B
	ND	10.0	11.1	ug/L	111	0.63	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.3	ug/L	103	0.77	SW846 8260B
Benzene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.2	ug/L	102	1.4	SW846 8260B
Trichloroethene	11	10.0	21.4	ug/L	99		SW846 8260B
	11	10.0	21.0	ug/L	95	1.9	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.5	ug/L	105	3.2	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.93	ug/L	99		SW846 8260B
	ND	10.0	10.2	ug/L	102	2.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL641 Work Order #...: JHFQD1AJ-MS Matrix.....: WATER
 MS Lot-Sample #: F6J270361-002 JHFQD1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Tetrachloroethene	0.36	10.0	9.28	ug/L	89		SW846 8260B
	0.36	10.0	9.51	ug/L	91	2.4	SW846 8260B
Tetrahydrofuran	ND	50.0	47.3	ug/L	95		SW846 8260B
	ND	50.0	47.3	ug/L	95	0.04	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	8.80	ug/L	88		SW846 8260B
	ND	10.0	9.17	ug/L	92	4.1	SW846 8260B
1-Butanol	ND	100	69.8	ug/L	70		SW846 8260B
	ND	100	78.1	ug/L	78	11	SW846 8260B
Toluene	ND	10.0	9.73	ug/L	97		SW846 8260B
	ND	10.0	10.0	ug/L	100	3.2	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(66 - 131)
	105	(66 - 131)
Dibromofluoromethane	101	(69 - 135)
	100	(69 - 135)
1,2-Dichloroethane-d4	102	(69 - 132)
	99	(69 - 132)
4-Bromofluorobenzene	94	(66 - 119)
	97	(66 - 119)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

N Spike sample recovery is outside control limits.

WET CHEMISTRY

Pacific Northwest National Laboratory

Client Sample ID: B1KKW1

General Chemistry

Lot-Sample #...: F6J060270-001

Work Order #...: JFWJ0

Matrix.....: WATER

Date Sampled...: 10/05/06

Date Received...: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	16.8 C,DN	2.0	mg/L	MCAWW 300.0A	10/06/06	6282167
		Dilution Factor: 10		MDL.....: 0.23		
Fluoride	0.17	0.10	mg/L	MCAWW 300.0A	10/06/06	6282168
		Dilution Factor: 1		MDL.....: 0.020		
Nitrate	4.5 DN	0.20	mg/L	MCAWW 300.0A	10/06/06	6282171
		Dilution Factor: 10		MDL.....: 0.040		
Nitrite	0.31 N	0.020	mg/L	MCAWW 300.0A	10/06/06	6282170
		Dilution Factor: 1		MDL.....: 0.0040		
Sulfate	40.7 DN	5.0	mg/L	MCAWW 300.0A	10/06/06	6282169
		Dilution Factor: 10		MDL.....: 0.50		

NOTE(S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKW6

General Chemistry

Lot-Sample #...: F6J060270-002
Date Sampled...: 10/05/06

Work Order #...: JFWJ5
Date Received...: 10/06/06

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	18.3 C,DN	2.0	mg/L	MCAWW 300.0A Dilution Factor: 10 MDL.....: 0.23	10/06/06	6282167
Fluoride	0.21	0.10	mg/L	MCAWW 300.0A Dilution Factor: 1 MDL.....: 0.020	10/06/06	6282168
Nitrate	6.1 DN	0.20	mg/L	MCAWW 300.0A Dilution Factor: 10 MDL.....: 0.040	10/06/06	6282171
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A Dilution Factor: 1 MDL.....: 0.0040	10/06/06	6282170
Sulfate	44.5 DN	4.0	mg/L	MCAWW 300.0A Dilution Factor: 10 MDL.....: 0.50	10/06/06	6282169

NOTE(S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKV8

General Chemistry

Lot-Sample #...: F6J060270-003

Work Order #...: JFWJ8

Matrix.....: WATER

Date Sampled...: 10/04/06

Date Received...: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	3.1 C,N	0.20	mg/L	MCAWW 300.0A	10/06/06	6282167
		Dilution Factor: 1		MDL.....: 0.023		
Fluoride	0.15	0.10	mg/L	MCAWW 300.0A	10/06/06	6282168
		Dilution Factor: 1		MDL.....: 0.020		
Nitrate	1.3 DN	0.20	mg/L	MCAWW 300.0A	10/06/06	6282171
		Dilution Factor: 10		MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/06/06	6282170
		Dilution Factor: 1		MDL.....: 0.0040		
Sulfate	14.9 N	0.50	mg/L	MCAWW 300.0A	10/06/06	6282169
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKV9

General Chemistry

Lot-Sample #...: F6J060270-004

Work Order #...: JFWJ9

Matrix.....: WATER

Date Sampled...: 10/04/06

Date Received...: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	4.0 C,N	0.20	mg/L	MCAWW 300.0A	10/06/06	6282167
		Dilution Factor: 1		MDL.....: 0.023		
Fluoride	0.18	0.10	mg/L	MCAWW 300.0A	10/06/06	6282168
		Dilution Factor: 1		MDL.....: 0.020		
Nitrate	1.9 DN	0.20	mg/L	MCAWW 300.0A	10/06/06	6282171
		Dilution Factor: 10		MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/06/06	6282170
		Dilution Factor: 1		MDL.....: 0.0040		
Sulfate	17.8 N	0.50	mg/L	MCAWW 300.0A	10/06/06	6282169
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKT2

General Chemistry

Lot-Sample #...: F6J060270-005

Work Order #...: JFWKA

Matrix.....: WATER

Date Sampled...: 10/04/06

Date Received...: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	9.1 C,DN	2.0	mg/L	MCAWW 300.0A Dilution Factor: 10 MDL.....: 0.23	10/06/06	6282167
Fluoride	0.16	0.10	mg/L	MCAWW 300.0A Dilution Factor: 1 MDL.....: 0.020	10/06/06	6282168
Nitrate	2.9 DN	0.20	mg/L	MCAWW 300.0A Dilution Factor: 10 MDL.....: 0.040	10/06/06	6282171
Nitrite	0.16 N	0.020	mg/L	MCAWW 300.0A Dilution Factor: 1 MDL.....: 0.0040	10/06/06	6282170
Sulfate	23.8 DN	5.0	mg/L	MCAWW 300.0A Dilution Factor: 10 MDL.....: 0.50	10/06/06	6282169

NOTE(S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKT8

General Chemistry

Lot-Sample #...: F6J060270-006

Work Order #...: JFWKG

Matrix.....: WATER

Date Sampled...: 10/04/06

Date Received...: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	3.3 C,N	0.20	mg/L	MCAWW 300.0A	10/06/06	6282167
	Dilution Factor: 1			MDL.....: 0.023		
Fluoride	0.078 B	0.10	mg/L	MCAWW 300.0A	10/06/06	6282168
	Dilution Factor: 1			MDL.....: 0.020		
Nitrate	0.94 N	0.020	mg/L	MCAWW 300.0A	10/06/06	6282171
	Dilution Factor: 1			MDL.....: 0.0040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/06/06	6282170
	Dilution Factor: 1			MDL.....: 0.0040		
Sulfate	12.9 N	0.50	mg/L	MCAWW 300.0A	10/06/06	6282169
	Dilution Factor: 1			MDL.....: 0.050		

NOTE(S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

Client Sample ID: B1KKW0

General Chemistry

Lot-Sample #...: F6J060270-007

Work Order #...: JFWKJ

Matrix.....: WATER

Date Sampled...: 10/04/06

Date Received...: 10/06/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	2.4 C,N	0.20	mg/L	MCAWW 300.0A	10/06/06	6282167
	Dilution Factor: 1			MDL.....: 0.023		
Fluoride	0.14	0.10	mg/L	MCAWW 300.0A	10/06/06	6282168
	Dilution Factor: 1			MDL.....: 0.020		
Nitrate	0.76 N	0.020	mg/L	MCAWW 300.0A	10/06/06	6282171
	Dilution Factor: 1			MDL.....: 0.0040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/06/06	6282170
	Dilution Factor: 1			MDL.....: 0.0040		
Sulfate	12.7 N	0.50	mg/L	MCAWW 300.0A	10/06/06	6282169
	Dilution Factor: 1			MDL.....: 0.050		

NOTE(S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKR2

General Chemistry

Lot-Sample #...: F6J180204-001
Date Sampled...: 10/16/06

Work Order #...: JGN27
Date Received...: 10/18/06

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	11.8 C,D	2.0	mg/L	MCAWW 300.0A	10/20/06	6296386
			Dilution Factor: 10	MDL.....: 0.23		
Fluoride	0.18 N	0.10	mg/L	MCAWW 300.0A	10/20/06	6296387
			Dilution Factor: 1	MDL.....: 0.020		
Nitrate	2.2 D	0.20	mg/L	MCAWW 300.0A	10/20/06	6296390
			Dilution Factor: 10	MDL.....: 0.040		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	10/20/06	6296389
			Dilution Factor: 1	MDL.....: 0.0040		
Sulfate	31.4 DN	5.0	mg/L	MCAWW 300.0A	10/20/06	6296388
			Dilution Factor: 10	MDL.....: 0.50		

NOTE (S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKV2

General Chemistry

Lot-Sample #...: F6J180204-002

Work Order #...: JGN28

Matrix.....: WATER

Date Sampled...: 10/16/06

Date Received...: 10/18/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	13.7 C,D	2.0	mg/L	MCAWW 300.0A	10/20/06	6296386
	Dilution Factor: 10			MDL.....: 0.23		
Fluoride	0.13 N	0.10	mg/L	MCAWW 300.0A	10/20/06	6296387
	Dilution Factor: 1			MDL.....: 0.020		
Nitrate	4.7 D	0.20	mg/L	MCAWW 300.0A	10/20/06	6296390
	Dilution Factor: 10			MDL.....: 0.040		
Nitrite	0.32	0.020	mg/L	MCAWW 300.0A	10/20/06	6296389
	Dilution Factor: 1			MDL.....: 0.0040		
Sulfate	52.9 DN	5.0	mg/L	MCAWW 300.0A	10/20/06	6296388
	Dilution Factor: 10			MDL.....: 0.50		

NOTE(S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKT0

General Chemistry

Lot-Sample #...: F6J180204-003

Work Order #...: JGN29

Matrix.....: WATER

Date Sampled...: 10/16/06

Date Received...: 10/18/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	0.95 C	0.20	mg/L	MCAWW 300.0A	10/20/06	6296386
	Dilution Factor: 1			MDL.....: 0.023		
Fluoride	0.061 B,N	0.10	mg/L	MCAWW 300.0A	10/20/06	6296387
	Dilution Factor: 1			MDL.....: 0.020		
Nitrate	0.10	0.020	mg/L	MCAWW 300.0A	10/20/06	6296390
	Dilution Factor: 1			MDL.....: 0.0040		
Nitrite	ND	0.020	mg/L	MCAWW 300.0A	10/20/06	6296389
	Dilution Factor: 1			MDL.....: 0.0040		
Sulfate	9.3 N	0.50	mg/L	MCAWW 300.0A	10/20/06	6296388
	Dilution Factor: 1			MDL.....: 0.050		

NOTE(S) :

RL Reporting Limit

C Analyte detected in method blank above the MDL/IDL.

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKR8

General Chemistry

Lot-Sample #....: F6J260237-001
Date Sampled....: 10/24/06

Work Order #....: JHA55
Date Received...: 10/26/06

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	3.0	0.20	mg/L	MCAWW 300.0A	10/26/06	6300288
		Dilution Factor: 1		MDL.....: 0.023		
Fluoride	0.14	0.10	mg/L	MCAWW 300.0A	10/26/06	6300289
		Dilution Factor: 1		MDL.....: 0.020		
Nitrate	0.82 N	0.020	mg/L	MCAWW 300.0A	10/26/06	6300292
		Dilution Factor: 1		MDL.....: 0.0040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/26/06	6300291
		Dilution Factor: 1		MDL.....: 0.0040		
Sulfate	19.6 DN	5.0	mg/L	MCAWW 300.0A	10/27/06	6300290
		Dilution Factor: 10		MDL.....: 0.50		

NOTE (S) :

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKR9

General Chemistry

Lot-Sample #...: F6J260237-002

Work Order #...: JHA6T

Matrix.....: WATER

Date Sampled...: 10/24/06

Date Received...: 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	3.9	0.20	mg/L	MCAWW 300.0A	10/26/06	6300288
		Dilution Factor: 1		MDL.....: 0.023		
Fluoride	0.22	0.10	mg/L	MCAWW 300.0A	10/26/06	6300289
		Dilution Factor: 1		MDL.....: 0.020		
Nitrate	1.6 DN	0.20	mg/L	MCAWW 300.0A	10/26/06	6300292
		Dilution Factor: 10		MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/26/06	6300291
		Dilution Factor: 1		MDL.....: 0.0040		
Sulfate	22.0 DN	5.0	mg/L	MCAWW 300.0A	10/26/06	6300290
		Dilution Factor: 10		MDL.....: 0.50		

NOTE(S) :

RL Reporting Limit

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKT1

General Chemistry

Lot-Sample #...: F6J260237-003
Date Sampled...: 10/23/06

Work Order #...: JHA61
Date Received...: 10/26/06

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	12.4 D	4.0	mg/L	MCAWW 300.0A	10/26-10/27/06	6300288
		Dilution Factor: 20		MDL.....: 0.46		
Fluoride	0.25	0.10	mg/L	MCAWW 300.0A	10/26/06	6300289
		Dilution Factor: 1		MDL.....: 0.020		
Nitrate	9.8 DN	0.40	mg/L	MCAWW 300.0A	10/26-10/27/06	6300292
		Dilution Factor: 20		MDL.....: 0.080		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/26/06	6300291
		Dilution Factor: 1		MDL.....: 0.0040		
Sulfate	51.2 DN	10.0	mg/L	MCAWW 300.0A	10/26-10/27/06	6300290
		Dilution Factor: 20		MDL.....: 1.0		

NOTE(S) :

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KKV0

General Chemistry

Lot-Sample #...: F6J260237-004

Work Order #...: JHA7E

Matrix.....: WATER

Date Sampled...: 10/24/06

Date Received...: 10/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	0.77	0.20	mg/L	MCAWW 300.0A	10/26/06	6300288
		Dilution Factor: 1		MDL.....: 0.023		
Fluoride	0.079 B	0.10	mg/L	MCAWW 300.0A	10/26/06	6300289
		Dilution Factor: 1		MDL.....: 0.020		
Nitrate	0.17 N	0.020	mg/L	MCAWW 300.0A	10/26/06	6300292
		Dilution Factor: 1		MDL.....: 0.0040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	10/26/06	6300291
		Dilution Factor: 1		MDL.....: 0.0040		
Sulfate	9.3 DN	0.50	mg/L	MCAWW 300.0A	10/26/06	6300290
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL641

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	0.054 B	0.20	mg/L	Work Order #: JF1N51AA MB Lot-Sample #: F6J090000-167 MCAWW 300.0A	10/06/06	6282167
				Dilution Factor: 1		
Chloride	0.050 B	0.20	mg/L	Work Order #: JG3VE1AA MB Lot-Sample #: F6J230000-386 MCAWW 300.0A	10/20/06	6296386
				Dilution Factor: 1		
Chloride	ND	0.20	mg/L	Work Order #: JHM8X1AA MB Lot-Sample #: F6J270000-288 MCAWW 300.0A	10/26/06	6300288
				Dilution Factor: 1		
Fluoride	ND	0.10	mg/L	Work Order #: JF1N71AA MB Lot-Sample #: F6J090000-168 MCAWW 300.0A	10/06/06	6282168
				Dilution Factor: 1		
Fluoride	ND	0.10	mg/L	Work Order #: JG3VG1AA MB Lot-Sample #: F6J230000-387 MCAWW 300.0A	10/20/06	6296387
				Dilution Factor: 1		
Fluoride	ND	0.10	mg/L	Work Order #: JHM881AA MB Lot-Sample #: F6J270000-289 MCAWW 300.0A	10/26/06	6300289
				Dilution Factor: 1		
Nitrate	ND	0.020	mg/L	Work Order #: JG3VN1AA MB Lot-Sample #: F6J230000-390 MCAWW 300.0A	10/20/06	6296390
				Dilution Factor: 1		
Nitrate	ND	0.020	mg/L	Work Order #: JHM9L1AE MB Lot-Sample #: F6J270000-292 MCAWW 300.0A	10/26/06	6300292
				Dilution Factor: 1		
Nitrite	ND	0.020	mg/L	Work Order #: JF1PC1AA MB Lot-Sample #: F6J090000-170 MCAWW 300.0A	10/06/06	6282170
				Dilution Factor: 1		
Nitrite	ND	0.020	mg/L	Work Order #: JG3VJ1AA MB Lot-Sample #: F6J230000-389 MCAWW 300.0A	10/20/06	6296389
				Dilution Factor: 1		
Nitrite	ND	0.020	mg/L	Work Order #: JHM9F1AA MB Lot-Sample #: F6J270000-291 MCAWW 300.0A	10/26/06	6300291
				Dilution Factor: 1		

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL641

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	PREP
		LIMIT	UNITS		ANALYSIS DATE	BATCH #
Nitrate	ND	Work Order #: JF1PE1AA 0.020 Dilution Factor: 1	mg/L	MB Lot-Sample #: F6J090000-171 MCAWW 300.0A	10/06/06	6282171
Nitrate	ND	Work Order #: JHM9L1AA 0.020 Dilution Factor: 1	mg/L	MB Lot-Sample #: F6J270000-292 MCAWW 300.0A	10/26/06	6300292
Sulfate	ND	Work Order #: JF1N91AA 0.50 Dilution Factor: 1	mg/L	MB Lot-Sample #: F6J090000-169 MCAWW 300.0A	10/06/06	6282169
Sulfate	ND	Work Order #: JG3VH1AA 0.50 Dilution Factor: 1	mg/L	MB Lot-Sample #: F6J230000-388 MCAWW 300.0A	10/20/06	6296388
Sulfate	ND	Work Order #: JHM9D1AA 0.50 Dilution Factor: 1	mg/L	MB Lot-Sample #: F6J270000-290 MCAWW 300.0A	10/26/06	6300290
Sulfate	ND	Work Order #: JHM9D1AE 0.50 Dilution Factor: 1	mg/L	MB Lot-Sample #: F6J270000-290 MCAWW 300.0A	10/26/06	6300290

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #....: SL641

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVR	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride		WO#:JF1N51AC-LCS/JF1N51AD-LCSD LCS Lot-Sample#: F6J090000-167						
	1.00	0.921	mg/L	92		MCAWW 300.0A	10/06/06	6282167
	1.00	0.979	mg/L	98	6.1	MCAWW 300.0A	10/06/06	6282167
		Dilution Factor: 1						
Chloride		WO#:JG3VE1AC-LCS/JG3VE1AD-LCSD LCS Lot-Sample#: F6J230000-386						
	1.00	0.962	mg/L	96		MCAWW 300.0A	10/20/06	6296386
	1.00	0.982	mg/L	98	2.0	MCAWW 300.0A	10/20/06	6296386
		Dilution Factor: 1						
Chloride		WO#:JHM8X1AC-LCS/JHM8X1AD-LCSD LCS Lot-Sample#: F6J270000-288						
	1.00	0.949	mg/L	95		MCAWW 300.0A	10/26/06	6300288
	1.00	0.917	mg/L	92	3.5	MCAWW 300.0A	10/26/06	6300288
		Dilution Factor: 1						
Fluoride		WO#:JF1N71AC-LCS/JF1N71AD-LCSD LCS Lot-Sample#: F6J090000-168						
	0.500	0.458	mg/L	92		MCAWW 300.0A	10/06/06	6282168
	0.500	0.465	mg/L	93	1.6	MCAWW 300.0A	10/06/06	6282168
		Dilution Factor: 1						
Fluoride		WO#:JG3VG1AC-LCS/JG3VG1AD-LCSD LCS Lot-Sample#: F6J230000-387						
	0.500	0.470	mg/L	94		MCAWW 300.0A	10/20/06	6296387
	0.500	0.479	mg/L	96	1.9	MCAWW 300.0A	10/20/06	6296387
		Dilution Factor: 1						
Fluoride		WO#:JHM881AC-LCS/JHM881AD-LCSD LCS Lot-Sample#: F6J270000-289						
	0.500	0.469	mg/L	94		MCAWW 300.0A	10/26/06	6300289
	0.500	0.486	mg/L	97	3.5	MCAWW 300.0A	10/26/06	6300289
		Dilution Factor: 1						
Nitrate		WO#:JG3VN1AC-LCS/JG3VN1AD-LCSD LCS Lot-Sample#: F6J230000-390						
	0.200	0.195	mg/L	98		MCAWW 300.0A	10/20/06	6296390
	0.200	0.195	mg/L	97	0.28	MCAWW 300.0A	10/20/06	6296390
		Dilution Factor: 1						
Nitrate		WO#:JHM9L1AF-LCS/JHM9L1AG-LCSD LCS Lot-Sample#: F6J270000-292						
	0.200	0.192	mg/L	96		MCAWW 300.0A	10/26/06	6300292
	0.200	0.191	mg/L	96	0.52	MCAWW 300.0A	10/26/06	6300292
		Dilution Factor: 1						

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: SL641

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrite								
						WO#:JF1PC1AC-LCS/JF1PC1AD-LCSD	LCS Lot-Sample#: F6J090000-170	
	0.0800	0.0724	mg/L	90		MCAWW 300.0A	10/06/06	6282170
	0.0800	0.0725	mg/L	91	0.12	MCAWW 300.0A	10/06/06	6282170
						Dilution Factor: 1		
Nitrite								
						WO#:JG3VJ1AC-LCS/JG3VJ1AD-LCSD	LCS Lot-Sample#: F6J230000-389	
	0.0800	0.0781	mg/L	98		MCAWW 300.0A	10/20/06	6296389
	0.0800	0.0758	mg/L	95	3.0	MCAWW 300.0A	10/20/06	6296389
						Dilution Factor: 1		
Nitrite								
						WO#:JHM9F1AC-LCS/JHM9F1AD-LCSD	LCS Lot-Sample#: F6J270000-291	
	0.0800	0.0810	mg/L	101		MCAWW 300.0A	10/26/06	6300291
	0.0800	0.0821	mg/L	103	1.4	MCAWW 300.0A	10/26/06	6300291
						Dilution Factor: 1		
Nitrate								
						WO#:JF1PE1AC-LCS/JF1PE1AD-LCSD	LCS Lot-Sample#: F6J090000-171	
	0.200	0.189	mg/L	95		MCAWW 300.0A	10/06/06	6282171
	0.200	0.193	mg/L	96	2.0	MCAWW 300.0A	10/06/06	6282171
						Dilution Factor: 1		
Nitrate								
						WO#:JHM9L1AC-LCS/JHM9L1AD-LCSD	LCS Lot-Sample#: F6J270000-292	
	0.200	0.186	mg/L	93		MCAWW 300.0A	10/26/06	6300292
	0.200	0.191	mg/L	96	2.5	MCAWW 300.0A	10/26/06	6300292
						Dilution Factor: 1		
Sulfate								
						WO#:JF1N91AC-LCS/JF1N91AD-LCSD	LCS Lot-Sample#: F6J090000-169	
	4.00	3.74	mg/L	94		MCAWW 300.0A	10/06/06	6282169
	4.00	3.80	mg/L	95	1.5	MCAWW 300.0A	10/06/06	6282169
						Dilution Factor: 1		
Sulfate								
						WO#:JG3VH1AC-LCS/JG3VH1AD-LCSD	LCS Lot-Sample#: F6J230000-388	
	4.00	3.80	mg/L	95		MCAWW 300.0A	10/20/06	6296388
	4.00	3.74	mg/L	94	1.6	MCAWW 300.0A	10/20/06	6296388
						Dilution Factor: 1		
Sulfate								
						WO#:JHM9D1AC-LCS/JHM9D1AD-LCSD	LCS Lot-Sample#: F6J270000-290	
	4.00	3.73	mg/L	93		MCAWW 300.0A	10/26/06	6300290
	4.00	3.69	mg/L	92	1.1	MCAWW 300.0A	10/26/06	6300290
						Dilution Factor: 1		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: SL641

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate			WO#:	JHM9D1AF-LCS/JHM9D1AG-LCSD		LCS Lot-Sample#:	F6J270000-290	
	4.00	3.73	mg/L	93		MCAWW 300.0A	10/26/06	6300290
	4.00	3.71	mg/L	93	0.61	MCAWW 300.0A	10/26/06	6300290
			Dilution Factor: 1					

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL641

Date Sampled...: 10/16/06

Date Received...: 10/18/06

Matrix.....: WATER

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	2.1	2.00	4.53 N	mg/L	123	MCAWW 300.0A	10/06/06	6282167
			Work Order #...: JFWMP1AH Dilution Factor: 1					
Chloride	0.95	2.00	2.88	mg/L	96	MCAWW 300.0A	10/20/06	6296386
			Work Order #...: JGN291AH Dilution Factor: 1					
Chloride	3.0	2.00	5.20	mg/L	108	MCAWW 300.0A	10/26/06	6300288
			Work Order #...: JHA551AJ Dilution Factor: 1					
Fluoride	0.56	2.00	2.76	mg/L	110	MCAWW 300.0A	10/06/06	6282168
			Work Order #...: JFWMP1AK Dilution Factor: 1					
Fluoride	0.061	2.00	1.83 N	mg/L	89	MCAWW 300.0A	10/20/06	6296387
			Work Order #...: JGN291AK Dilution Factor: 1					
Fluoride	0.14	2.00	2.16	mg/L	101	MCAWW 300.0A	10/26/06	6300289
			Work Order #...: JHA551AK Dilution Factor: 1					
Nitrate	0.10	0.400	0.482	mg/L	94	MCAWW 300.0A	10/20/06	6296390
			Work Order #...: JGN291AR Dilution Factor: 1					
Nitrate	0.82	0.400	1.28 N	mg/L	114	MCAWW 300.0A	10/26/06	6300292
			Work Order #...: JHA551AN Dilution Factor: 1					
Nitrite	ND	0.100	0.147 N	mg/L	147	MCAWW 300.0A	10/06/06	6282170
			Work Order #...: JFWMP1AP Dilution Factor: 1					
Nitrite	ND	0.100	0.104	mg/L	104	MCAWW 300.0A	10/20/06	6296389
			Work Order #...: JGN291AP Dilution Factor: 1					
Nitrite	ND	0.100	0.0576 N	mg/L	58	MCAWW 300.0A	10/26/06	6300291
			Work Order #...: JHA551AM Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL641

Date Sampled...: 10/16/06

Date Received...: 10/18/06

Matrix.....: WATER

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrate	0.50	0.400	0.978 N	mg/L	119	MCAWW 300.0A	10/06/06	6282171
Work Order #...: JFWMP1AR Dilution Factor: 1 MS Lot-Sample #: F6J060280-002								
Sulfate	12.5	4.00	17.2 N	mg/L	117	MCAWW 300.0A	10/06/06	6282169
Work Order #...: JFWMP1AM Dilution Factor: 1 MS Lot-Sample #: F6J060280-002								
Sulfate	9.3	4.00	12.7 N	mg/L	85	MCAWW 300.0A	10/20/06	6296388
Work Order #...: JGN291AM Dilution Factor: 1 MS Lot-Sample #: F6J180204-003								
Sulfate	19.6	40.0	54.9 N,D	mg/L	88	MCAWW 300.0A	10/27/06	6300290
Work Order #...: JHA551AL Dilution Factor: 10 MS Lot-Sample #: F6J260237-001								

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: F6J060270

Work Order #....: JFWMP-SMP
JFWMP-DUP

Matrix.....: WATER

Date Sampled....: 10/05/06

Date Received...: 10/06/06

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	2.1 C,N	1.9 CN	mg/L	10	(0-20)	SD Lot-Sample #: F6J060280-002 MCAWW 300.0A	10/06/06	6282167
			Dilution Factor: 1					
Fluoride	0.56	0.56	mg/L	0.13	(0-20)	SD Lot-Sample #: F6J060280-002 MCAWW 300.0A	10/06/06	6282168
			Dilution Factor: 1					
Sulfate	12.5 N	12.5 N	mg/L	0.36	(0-20)	SD Lot-Sample #: F6J060280-002 MCAWW 300.0A	10/06/06	6282169
			Dilution Factor: 1					
Nitrite	ND <i>N</i> <i>11-25-06</i>	ND <i>N</i>	mg/L	0	(0-20)	SD Lot-Sample #: F6J060280-002 MCAWW 300.0A	10/06/06	6282170
			Dilution Factor: 1					
Nitrate	0.50 N	0.51 N	mg/L	2.6	(0-20)	SD Lot-Sample #: F6J060280-002 MCAWW 300.0A	10/06/06	6282171
			Dilution Factor: 1					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

CN Result in method blank above MDL/RL; associated MS/MSD recovery outside limits.

C Analyte detected in method blank above the MDL/IDL.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: F6J060270

Work Order #....: JGN29-SMP
JGN29-DUP

Matrix.....: WATER

Date Sampled....: 10/16/06

Date Received...: 10/18/06

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	0.95 C	1.2 C	mg/L	23	(0-20)	SD Lot-Sample #: F6J180204-003 MCAWW 300.0A	10/20/06	6296386
						Dilution Factor: 1		
Fluoride	0.061 B,N	0.066 B,N	mg/L	8.7	(0-20)	SD Lot-Sample #: F6J180204-003 MCAWW 300.0A	10/20/06	6296387
						Dilution Factor: 1		
Sulfate	9.3 N	9.4 N	mg/L	0.50	(0-20)	SD Lot-Sample #: F6J180204-003 MCAWW 300.0A	10/20/06	6296388
						Dilution Factor: 1		
Nitrite	ND	ND	mg/L	0	(0-20)	SD Lot-Sample #: F6J180204-003 MCAWW 300.0A	10/20/06	6296389
						Dilution Factor: 1		
Nitrate	0.10	0.11	mg/L	2.4	(0-20)	SD Lot-Sample #: F6J180204-003 MCAWW 300.0A	10/20/06	6296390
						Dilution Factor: 1		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

C The analyte was detected in the associated method blank above the IDL/MDL

C Analyte detected in method blank above the MDL/IDL.

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6J060270

Work Order #...: JHA55-SMP
JHA55-DUP

Matrix.....: WATER

Date Sampled...: 10/24/06

Date Received...: 10/26/06

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	3.0	3.0	mg/L	0.33	(0-20)	SD Lot-Sample #: F6J260237-001 MCAWW 300.0A	10/26/06	6300288
			Dilution Factor: 1					
Fluoride	0.14	0.13	mg/L	9.8	(0-20)	SD Lot-Sample #: F6J260237-001 MCAWW 300.0A	10/26/06	6300289
			Dilution Factor: 1					
Sulfate	19.6 DN	19.7 DN	mg/L	0.81	(0-20)	SD Lot-Sample #: F6J260237-001 MCAWW 300.0A	10/27/06	6300290
			Dilution Factor: 10					
Nitrite	ND <i>N</i>	ND <i>N</i>	mg/L	0	(0-20)	SD Lot-Sample #: F6J260237-001 MCAWW 300.0A	10/26/06	6300291
			Dilution Factor: 1					
Nitrate	0.82 N	0.82 N	mg/L	0.12	(0-20)	SD Lot-Sample #: F6J260237-001 MCAWW 300.0A	10/26/06	6300292
			Dilution Factor: 1					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

PNNL <div style="font-size: 2em; font-family: cursive;">SL641</div>		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST <div style="font-size: 1.5em; font-family: cursive;">12658</div>		C.O.C. # <div style="font-size: 1.5em; font-weight: bold;">X07-001-4</div>	
				Page 1 of 1	
Collector		Contact/Requester Dot Stewart		Telephone No. MSIN FAX 509-376-5056	
SAF No. X07-001		Sampling Origin Hanford Site		Purchase Order/Charge Code	
Project Title SESP SEEPS OCTOBER 2006				Ice Chest No. WQED Temp.	
Shipped To (Lab) Severn Trent St. Louis		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No. 79902523501	
Protocol SESP		Priority: 45 Days		Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** **				SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Batch all samples submitted under this SAF into one SDG, not to exceed SDG closure of 14 days. Submit deliverables to DL Stewart, PNNL.	

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1KKR8		W	10/24/06	14:10	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C
B1KKR8		W	10/24/06	14:10	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1KKR8		W	10/24/06	14:40	1x20-mL P	Activity Scan	None

Relinquished By <div style="font-family: cursive; font-size: 1.2em;">Ferryman / Smith</div>	Print 	Sign 	Date/Time <div style="font-family: cursive;">10/24/06</div>	Received By <div style="font-family: cursive; font-size: 1.2em;">LOKED STANGE</div>	Print 	Sign 	Date/Time <div style="font-family: cursive;">10/24/06</div>	Matrix * S = Soil DS = Drum Solid SE = Sediment DI. = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L. = Liquid O = Oil V = Vegetation A = Air X = Other	
Relinquished By <div style="font-family: cursive; font-size: 1.2em;">R. W. Fulton</div>			Date/Time <div style="font-family: cursive;">10/25/06 3:00</div>	Received By <div style="font-family: cursive; font-size: 1.2em;">FEL EX</div>			Date/Time <div style="font-family: cursive;">10/25/06 3:30</div>		
Relinquished By <div style="font-family: cursive; font-size: 1.2em;">J. E. ...</div>			Date/Time <div style="font-family: cursive;">10-26-06 0915</div>	Received By <div style="font-family: cursive; font-size: 1.2em;">B-R-L</div>			Date/Time <div style="font-family: cursive;">10/24/06 0915</div>		
Relinquished By 			Date/Time 	Received By 			Date/Time 		
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time

PNNL <div style="font-size: 2em; margin-left: 50px;">52641</div>		<h2 style="margin: 0;">CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</h2>		C.O.C. # <div style="font-size: 1.5em; text-align: center;">X07-001-10</div>	
				Page <u>1</u> of <u>1</u>	
Collector <u>Ferritto</u>		Contact/Requester Dot Stewart		Telephone No. <u>509-376-5056</u> MSIN FAX	
SAF No. <u>X07-001</u>		Sampling Origin Hanford Site		Purchase Order/Charge Code	
Project Title <u>SESP SEEPS OCTOBER 2006</u>				Ice Chest No. <u>WQED</u> Temp.	
Shipped To (Lab) <u>Severn Trent St. Louis</u>		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No. <u>749025739.501</u>	
Protocol <u>SESP</u>		Priority: 45 Days		Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** **			SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Batch all samples submitted under this SAF into one SDG, not to exceed SDG closure of 14 days. Submit deliverables to DL Stewart, PNNL.		

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1KKT1		W	<u>10-23-06</u>	<u>1348</u>	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C
B1KKT1		W	<u>10-23-06</u>	<u>1348</u>	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1KKT1		W	<u>10-23-06</u>	<u>1345</u>	1x20-mL P	Activity Scan	None

Relinquished By <u>Ferritto</u> Print Sign <u>J. Ferritto</u> Date/Time <u>10-23-06 1520</u>	Received By <u>COLLEO STORAGE</u> Print Sign Date/Time <u>10-15-06 1520</u>	Matrix * S = Soil DS = Drum Solid SE = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By <u>R. W. Fulsa</u> Print Sign <u>R. W. Fulsa</u> Date/Time <u>10/25/06 3:00</u>	Received By <u>Feb 88</u> Print Sign Date/Time <u>10/25/06 3:30</u>	
Relinquished By <u>J. Allen</u> Print Sign Date/Time <u>10-26-06 0915</u>	Received By <u>B-D-J</u> Print Sign Date/Time <u>10/26/06 0915</u>	
Relinquished By Print Sign Date/Time	Received By Print Sign Date/Time	
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time		

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Single piece shipments

Tracking number	Status	Date/Time	Destination	Service
792872262737	Delivered	Oct 26, 2006 9:07 AM	Earth City, MO	FedEx Express
799025739501	Delivered	Oct 26, 2006 9:07 AM	Earth City, MO	FedEx Express

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STL St. Louis

Lot #(s): F6J260228

- 4637 -

237

Condition Upon Receipt Form

Client: PNNL
Quote No: _____COC/RFA No: see below
Initiated By: BDDate: 10/26/06
Time: 0915

Shipping Information

Shipper Name: FE

Shipping # (s):*

Multiple Packages Y N N/A

Sample Temperature (s):**

1. 1926 1226 27372. 2446 2573 9501

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

1. 32. 3

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	<u>Y</u> <u>N</u>	Was sample received broken?	8.	<u>Y</u> <u>N</u>	Sample received with Chain of Custody?
2.	<u>Y</u> <u>N</u> <u>N/A</u>	Was sample received with proper pH ¹ ? (If not, make note below)	9.	<u>Y</u> <u>N</u>	Chain of Custody matches sample ID's on container(s)?
3.	<u>Y</u> <u>N</u>	If N/A- Was pH taken by original STL Lab?	10.	<u>Y</u> <u>N</u>	Are there custody seals present on cooler?
4.	<u>Y</u> <u>N</u>	Sample received in proper containers?	11.	<u>Y</u> <u>N</u> <u>N/A</u>	Do custody seals on cooler appear to be tampered with?
5.	<u>Y</u> <u>N</u>	Sample volume sufficient for analysis?	12.	<u>Y</u> <u>N</u>	Are there custody seals present on bottles?
6.	<u>Y</u> <u>N</u> <u>N/A</u>	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)	13.	<u>Y</u> <u>N</u> <u>N/A</u>	Do custody seals on bottles appear to be tampered with?
7.	<u>Y</u> <u>N</u>	Were contents of the cooler frisked after opening	14.	<u>Y</u> <u>N</u> <u>N/A</u>	Was Internal COC/Workshare received?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.Notes: x07-001-4, 6, 10, 17206-004-179, 197, 227, 233, 239, 261REV 10.26.06Analysis received after or off day of
hold time

Corrective Action:

- ☐ Client Contact Name: _____
- ☐ Sample(s) processed "as is"
- ☐ Sample(s) on hold until: _____

Informed by: _____

If released, notify: _____

Project Management Review: _____

Date: 10-26-06

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

PNNL <i>SL641</i>		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # <div style="text-align: right; font-weight: bold; font-size: 1.2em;">X07-001-2</div>	
				Page <u>1</u> of <u>1</u>	
Collector <i>Ferritto</i>		Contact/Requester <i>Dot Stewart</i>		Telephone No. <i>509-376-5056</i> MSIN FAX	
SAF No. <i>X07-001</i>		Sampling Origin <i>Hanford Site</i>		Purchase Order/Charge Code	
Project Title <i>SESP SEEPS OCTOBER 2006</i>				Ice Chest No. <i>ED05</i> Temp.	
Shipped To (Lab) <i>Severn Trent St. Louis</i>		Method of Shipment <i>Govt. Vehicle</i>		Bill of Lading/Air Bill No. <i>192224253756</i>	
Protocol <i>SESP</i>		Priority: 45 Days		Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** **			SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Batch all samples submitted under this SAF into one SDG, not to exceed SDG closure of 14 days. Submit deliverables to DL Stewart, PNNL.		

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1KKR2		W	<i>10-16-06</i>	<i>0945</i>	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C
B1KKR2		W	<i>10-16-06</i>	<i>0945</i>	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1KKR2		W	<i>10-16-06</i>	<i>0945</i>	1x20-mL P	Activity Scan	None

Relinquished By <i>J. Ferritto</i> Print Sign Date/Time <i>10-16-06 1545</i>		Received By <i>LOCKED STORAGE</i> Print Sign Date/Time <i>10-16-06 1545</i>		Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By <i>SIG 5 LOCKED STORAGE</i> Date/Time <i>10/17/06 11:00</i>		Received By <i>R.W. FULTON</i> Date/Time <i>10/17/06 11:00</i>		
Relinquished By <i>R.W. FULTON</i> Date/Time <i>10/17/06 3:10</i>		Received By <i>Fed Ex</i> Date/Time <i>10/17/06 3:10</i>		
Relinquished By <i>Fed Ex</i> Date/Time <i>10-18-06 0900</i>		Received By <i>Joe Clarke</i> Date/Time <i>10-18-06 0900</i>		
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By Date/Time

PNNL <i>SL641</i>		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # X07-001-21	
				Page <u>1</u> of <u>1</u>	
Collector <i>FERRITTO/Kelton</i>		Contact/Requester Dot Stewart		Telephone No. MSIN FAX 509-376-5056	
SAF No. X07-001		Sampling Origin Hanford Site		Purchase Order/Charge Code	
Project Title SESP SEEPS OCTOBER 2006				Ice Chest No. <i>ED05</i> Temp.	
Shipped To (Lab) Severn Trent St. Louis		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No. <i>192224253756</i>	
Protocol SESP		Priority: 45 Days		Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** **			SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Batch all samples submitted under this SAF into one SDG, not to exceed SDG closure of 14 days. Submit deliverables to DL Stewart, PNNL.		

[illegible]

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *	
Relinquished By	FRIVITT	[Signature]	10-16-06 1541	Received By	LOCKED STORAGE		10-16-06 1543	S = Soil	DS = Drum Solid
Relinquished By	SIG 5 LOCKED STORAGE		10/17/06 11:00	Received By	R.W. FULTON	12-6-06	10/17/06 11:05	SE = Sediment	DL = Drum Liquid
Relinquished By	R.W. FULTON		10/17/06 3:00	Received By	Fed Ex		10/17/06 3:30	SO = Solid	T = Tissue
Relinquished By	Fed Ex		10-18-06 0900	Received By	Cell Clark		10-18-06 0900	SL = Sludge	WI = Wine
								W = Water	L = Liquid
								O = Oil	V = Vegetation
								A = Air	X = Other
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By		Date/Time	

Condition Upon Receipt Form

Client: PNNL
Quote No: _____COC/RFA No: X07-001-2, 21, 7
Initiated By: [Signature]Date: 10.18.06
Time: 0900

Shipping Information

Shipper Name: Fed Ex

Shipping # (s):*

1. 7922 2425 3756

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Multiple Packages Y (N) N/A

Sample Temperature (s):**

1. 2 6. _____

2. _____ 7. _____

3. _____ 8. _____

4. _____ 9. _____

5. _____ 10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	<u>(Y)</u> <u>(N)</u>	Was sample received broken?	8.	<u>(Y)</u> N	Sample received with Chain of Custody?
2.	<u>(Y)</u> N N/A	Was sample received with proper pH ¹ ? (If not, make note below)	9.	<u>(Y)</u> N	Chain of Custody matches sample ID's on container(s)?
3.	Y N	If N/A-Was pH taken by original STL Lab?	10.	<u>(Y)</u> N	Are there custody seals present on cooler?
4.	<u>(Y)</u> N	Sample received in proper containers?	11.	Y <u>(N)</u> N/A	Do custody seals on cooler appear to be tampered with?
5.	<u>(Y)</u> N	Sample volume sufficient for analysis?	12.	<u>(Y)</u> N	Are there custody seals present on bottles?
6.	Y <u>(N)</u> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)	13.	Y <u>(N)</u> N/A	Do custody seals on bottles appear to be tampered with?
7.	<u>(Y)</u> N	Were contents of the cooler frisked after opening	14.	Y N	Was Internal COC/Workshare received?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

Corrective Action:

☐ Client Contact Name: _____☐ Sample(s) processed "as is"☐ Sample(s) on hold until: _____Project Management Review: [Signature]

Informed by: _____

If released, notify: _____

Date: 10-20-06

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

PNNL <i>Jan-28-06</i> <i>SL6401</i>	<h2 style="margin:0;">CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</h2>	C.O.C. # <h3 style="margin:0;">X07-001-33</h3>
Page <u>1</u> of <u>1</u>		
Collector <i>Ferritto</i>	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. X07-001	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SESP SEEPS OCTOBER 2006		Ice Chest No. Temp. <i>E03</i>
Shipped To (Lab) Severn Trent St. Louis	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. <i>7905 7874 5220</i>
Protocol SESP	Priority: 45 Days	Offsite Property No.
POSSIBLE SAMPLE HAZARDS/REMARKS ** **		SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Batch all samples submitted under this SAF into one SDG, not to exceed SDG closure of 14 days. Submit deliverables to DL Stewart, PNNL.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1KKW6		W	<i>10-5-06</i>	<i>1300</i>	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C
B1KKW6		W	<i>10-5-06</i>	<i>1300</i>	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1KKW6		W	<i>10-5-06</i>	<i>1300</i>	1x20-mL P	Activity Scan	None

Relinquished By <i>J. Ferritto</i>	Print <i>Ferritto</i>	Sign <i>Ferritto</i>	Date/Time <i>10-5-06</i>	Received By <i>Fed Ex</i>	Print <i>Fed Ex</i>	Sign <i>Fed Ex</i>	Date/Time <i>10-5-06</i>	Matrix * S = Soil DS = Drum Solid SE = Sediment DI. = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L. = Liquid O = Oil V = Vegetation A = Air X = Other	
Relinquished By <i>Fed Ex</i>			Date/Time <i>10-6-06 0915</i>	Received By <i>Qu Clark</i>			Date/Time <i>10-6-06 0915</i>		
Relinquished By			Date/Time	Received By			Date/Time		
Relinquished By			Date/Time	Received By			Date/Time		
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time

PNNL <i>SL6481</i>		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			C.O.C. # X07-001-24	
					Page <u>1</u> of <u>1</u>	
Collector <i>Ferraro</i>		Contact/Requester Dot Stewart		Telephone No. MSIN FAX 509-376-5056		
SAF No. X07-001		Sampling Origin Hanford Site		Purchase Order/Charge Code		
Project Title SESP SEEPS OCTOBER 2006				Ice Chest No. <i>ED3</i> Temp.		
Shipped To (Lab) Severn Trent St. Louis		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No. <i>7905 7874 5220</i>		
Protocol SESP		Priority: 45 Days		Offsite Property No.		
POSSIBLE SAMPLE HAZARDS/REMARKS ** **				SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Batch all samples submitted under this SAF into one SDG, not to exceed SDG closure of 14 days. Submit deliverables to DL Stewart, PNNL.		

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1KKV8		W	<i>10-4-06</i>	<i>1300</i>	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1KKV8		W	<i>10-4-06</i>	<i>1300</i>	1x20-mL P	Activity Scan	None

Relinquished By <i>J. Ferraro</i> / <i>Ferraro</i> Print Sign Date/Time <i>10-4-06</i>			Received By <i>LOCICED STORAGE</i> Print Sign Date/Time <i>10-4-06</i> <i>KDC</i>			Matrix * S = Soil DS = Drum Solid SE = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other	
Relinquished By <i>LOCICED STORAGE</i> / <i>Ferraro</i> Print Sign Date/Time <i>10-5-06</i>			Received By <i>Fed Ex</i> Print Sign Date/Time <i>10-5-04</i>				
Relinquished By <i>Fed Ex</i> / <i>Ferraro</i> Print Sign Date/Time <i>10-6-06</i> <i>0915</i>			Received By <i>John Clark</i> / <i>Ferraro</i> Print Sign Date/Time <i>10-6-06</i> <i>0915</i>				
Relinquished By _____ Print Sign Date/Time _____			Received By _____ Print Sign Date/Time _____				
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By _____ Date/Time _____	

PNNL <i>SL6401</i> <i>11-28-06</i>		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # X07-001-25
				Page <u>1</u> of <u>1</u>
Collector <i>Ferritto</i>		Contact/Requester Dot Stewart		Telephone No. MSIN FAX 509-376-5056
SAF No. X07-001		Sampling Origin Hanford Site		Purchase Order/Charge Code
Project Title SESP SEEPS OCTOBER 2006				Ice Chest No. <i>ED3</i> Temp.
Shipped To (Lab) Severn Trent St. Louis		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No. <i>7905 7874 5220</i>
Protocol SESP		Priority: 45 Days		Offsite Property No.
POSSIBLE SAMPLE HAZARDS/REMARKS ** **		SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Batch all samples submitted under this SAF into one SDG, not to exceed SDG closure of 14 days. Submit deliverables to DL Stewart, PNNL.		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *	
	J. Ferraro	[Signature]	10-4-06		LOCKED STORAGE		10-4-06 1203	S = Soil	DS = Drum Solid
Relinquished By			Date/Time	Received By			Date/Time	SE = Sediment	DL = Drum Liquid
	LOCKED STORAGE	[Signature]	10-5-06		Fed Ex		10-5-06	SO = Solid	T = Tissue
Relinquished By			Date/Time	Received By			Date/Time	SL = Sludge	WI = Wine
	Fed Ex		10-6-06 0915		[Signature] Clark		10-6-06 0915	W = Water	L = Liquid
								O = Oil	V = Vegetation
								A = Air	X = Other
Relinquished By			Date/Time	Received By			Date/Time		
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By		Date/Time	

PNNL SL6481 11/28/00		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # X07-001-11
		Page 1 of 1		
Collector Ferraro	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN FAX	
SAF No. X07-001	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title SESP SEEPS OCTOBER 2006		Ice Chest No. 3D3	Temp.	
Shipped To (Lab) Severn Trent St. Louis	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. 7905 7874 5220		
Protocol SESP	Priority: 45 Days	Offsite Property No.		
POSSIBLE SAMPLE HAZARDS/REMARKS ** **		SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Batch all samples submitted under this SAF into one SDG, not to exceed SDG closure of 14 days. Submit deliverables to DL Stewart, PNNL.		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other	
Relinquished By			Date/Time	Received By			Date/Time		
Relinquished By			Date/Time	Received By			Date/Time		
Relinquished By			Date/Time	Received By			Date/Time		
Relinquished By			Date/Time	Received By			Date/Time		
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time

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Single piece shipments

Tracking number	Status	Date/Time	Destination	Service
798014062334	Delivered	Oct 6, 2006 9:10 AM	Earth City, MO	FedEx Express
790578745220	Delivered	Oct 6, 2006 9:10 AM	Earth City, MO	FedEx Express

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STL St. Louis

Lot #(s): F6T060270

- 4378 -

Client: PNNL
Quote No: _____COC/RFA No: See Below
Initiated By: [Signature]Date: 10-6-06
Time: 0915

Condition Upon Receipt Form

Shipping Information

Shipper Name: Fed Ex

Shipping # (s): *

Multiple Packages ☒ Y N N/A

Sample Temperature (s): **

1. 7480 1406 2334
2. 7905 7874 5220
3. _____
4. _____
5. _____6. _____
7. _____
8. _____
9. _____
10. _____1. 5
2. 2
3. _____
4. _____
5. _____6. _____
7. _____
8. _____
9. _____
10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition: Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	8.	<input checked="" type="radio"/> Y N	Sample received with Chain of Custody?
2.	<input checked="" type="radio"/> Y N N/A	Was sample received with proper pH ¹ ? (If not, make note below)	9.	<input checked="" type="radio"/> Y N	Chain of Custody matches sample ID's on container(s)?
3.	Y N	If N/A-Was pH taken by original STL Lab?	10.	<input checked="" type="radio"/> Y N	Are there custody seals present on cooler?
4.	<input checked="" type="radio"/> Y N	Sample received in proper containers?	11.	Y <input checked="" type="radio"/> N N/A	Do custody seals on cooler appear to be tampered with?
5.	<input checked="" type="radio"/> Y N	Sample volume sufficient for analysis?	12.	<input checked="" type="radio"/> Y N	Are there custody seals present on bottles?
6.	Y <input checked="" type="radio"/> N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)	13.	Y <input checked="" type="radio"/> N N/A	Do custody seals on bottles appear to be tampered with?
7.	<input checked="" type="radio"/> Y N	Were contents of the cooler frisked after opening	14.	Y N	Was Internal COC/Workshare received?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

COC #5W06-009-271-272I06-054-142X07-001-2933-25-11-13-28X07-001-024 SM 02-19-07

Corrective Action:

- ☐ Client Contact Name: _____
- ☐ Sample(s) processed "as is"
- ☐ Sample(s) on hold until: _____

Informed by: _____

Project Management Review: F. Perry

If released, notify: _____

Date: 10/6/06

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.